

**Notice of Allowability**

Application No.

10/665,994

Examiner

Anatoly Vortman

Applicant(s)

LEE ET AL.

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed on 09/17/2003.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ The drawings filed on 17 September 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 9/17/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

ANATOLY VORTMAN  
PRIMARY EXAMINER

### REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The allowability resides in the overall structure of the device as recited in independent claims 1, 12, and 18, and at least in part because of the following:

claim 1 recites: "a pair of resilient portions", "a pair of opposite pressing portions", and "a pair of cutouts being defined in the pressing member at a side thereof";

claim 12 recites: "two fastening means", "a pair of opposite pressing portions", "a first latching leg", and "a second latching leg"; and,

claim 18 recites: "a rectangular frame", "a first beam", "a second beam", "a first latch leg", and "a second latch leg".

The aforementioned limitations in combination with all remaining limitations of the respective claims, are believed to render said claims patentable over the art of record.

Furthermore, regarding claim 12, the claim was considered under 35 USC 112, sixth paragraph, since it recites "means plus function" limitation: "fastening means". The aforementioned "fastening means" have been described in the specification, p. 5, paragraph [0022] (resilient fingers) and p. 3 and 4, paragraph [0016] (resilient claws), and have been shown on the drawings (Fig. 1, 2, elements (142) and Fig. 4, 5, elements (542)).

The closest reference to the present invention is believed to be US/6,501,656 to Peng et al., (Peng).

Peng disclosed (Fig. 1-3) a heat sink assembly comprising: a socket (40); an electronic package (30) mounted on the socket (40); a heat sink (22); and a clip (10) comprising a pressing

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member (12) engaged with the socket (40), and an operating member (14) comprising a pair of resilient portions (144, 148), the pressing member (12) pressing the heat sink (22) against the electronic package (30), a pair of cutouts (138, 136) being defined in the pressing member (12), the resilient portions (144, 148) snappingly engaged with the pressing member (12) in the cutouts (136, 138), but did not disclose a pair of opposite pressing portions and the cutouts that are formed on a side of the pressing member, as required by claim 1, or “fastening means” as required by claim 12, or “a rectangular frame”, “a first beam”, and “a second beam”, as required by claim 18.

The Examiner has also cited the following pertinent to the present invention references:

US/20040125567, 20040032720, 6778395, 6731506, 6570763, 6250375, 5933326, 5761036, 5671118, D0492655, 6483703, 6452801, 6449817, 5771960, 5448449, 5979025, 5870288, and WO 03/081641 disclosed mounting arrangements for heat sinks.

None of the cited references either taken alone or in combination is believed to render the present invention unpatentable as claimed.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anatoly Vortman whose telephone number is 571-272-2047. The examiner can normally be reached on Monday-Friday, between 10:00 am and 6:30 pm..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AV

A handwritten signature in black ink, appearing to read 'A. Vortman', followed by a long horizontal line extending to the right.

Anatoly Vortman  
Primary Examiner  
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